

# The Canadian Entomologist.

VOL. XXXIV.

LONDON, OCTOBER, 1902.

No. 10

## A PRELIMINARY LIST OF ACRIDIIDÆ OF ONTARIO.

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Since the last of my "Notes on Some Ontario Acridiidae" were printed, five species have been added to the list, and the number of localities for those already recorded has been considerably increased. I think, therefore, that it will make the notes more complete to conclude them with a full list of the species of this family known to occur in the Province, with their distribution as hitherto recorded.

Only a small portion of the territory included in the Province of Ontario has been at all thoroughly explored by entomologists, but I do not believe there are very many native species of Acridiidae not included in the present list. Doubtless, however, some of the Manitoba and Minnesota forms extend into the north-western part of Ontario, while it is extremely probable that there are unrecorded species in the south-west, and possibly a few in the east and extreme north.

The five species referred to above are as follows :

TRYXALIS BREVICORNIS, Linn.

*Gryllus brevicornis*, Linn. Syst. Nat., ed. 12, II., 692 (1767).

*Tryxalis brevicornis*, Fabr. Syst. Ent., 279 (1775).

*Pyrgomorpha brevicornis*, Walk. Cat. Derm. Salt. Brit. Mus., III., 500 (1870).

*Opsomala punctipennis*, Serv. Orth., 590 (1839).

Two males of this southern species were taken just above Point Pelee, in an open marsh bordering a creek, on Aug. 8, 1901. They were very active, and leaped several times among the sedge before they were caught.

This species has a very interesting distribution, being found from Long Id. and Indiana south to the Gulf of Mexico, and through Texas to Honduras and Brazil.

ORPHULELLA PELIDNA, Burm.

*Gomphocerus pelidnus*, Burm. Handb. Ent., II., 650 (1838).

*Stenobothrus maculipennis*, Scudd. Bost. Jour. Nat. Hist., VII., 458-459 (1862).

*Stenobothrus propinquans*, Scudd. Ibid., VII., 461 (1862).

*Orphula pelidna*, McNeill. Proc. Dav. Acad. Nat. Sc., VI., 235-239 (1897).

*Orphulella pelidna*, Scudd. CAN. ENT., XXXI., 179-187 (1899).

I found this species in large numbers in a tract of open marsh land bordering the St. Clair River, just north of Sarnia. This piece of land was dry when I visited it, but in the early summer was covered with water. *O. pelidna* was found in the more bare places, where the ground was dry and somewhat cracked. The males produced a rapid, rattling sound when flying, like the various members of the Oedipodinae, but the sound did not last more than about a second. Although the grass was long where they occurred, they always alighted on the ground.

TRIMEROTROPIS HURONIANA, Walk.

*Trimerotropis huroniana*, Walk. CAN. ENT., XXXIV., 1 (1902).

This species has been fully described under the above reference, so that it need only be alluded to here.

PAROXYA FLORIDANA, Thom.

*Caloptenus floridanus*, Thom. Bull. U. S. Geol. Surv. Terr., I., No. 2, 68 (1874).

*Paroxya atlantica*, Scudd. (pars). Proc. Bost. Soc. Nat. Hist., XIX., 29, 88 (1887).

*Paroxya floridana*, Smith. Cat. Ins., N. J., 412 (1890).

This insect was found in considerable numbers in a sedgy swamp bordering a small stream at Arner, Ont. It is a southern form.

MELANOPLUS BRUNERI, Scudd.

*Melanoplus Bruneri*, Scudd. Rev. Mel. 164, 1897.

On Sept. 2, 1902, while collecting at Dwight, in Northern Muskoka, at the close of a fortnight's canoe trip in Algonquin Park, I captured a single specimen of a *Melanoplus*, which I at once recognized as new to Ontario. There was not time to make a thorough search for more specimens, and none were found. The specimen is a male and agrees in nearly all respects with *M. Bruneri* as described in Scudder's Revision. The chief point in the description which does not fit my specimen is the statement that the interspace between the mesosternal lobes is more than twice as long as broad in the male, whereas in my specimen it is slightly less than twice as long as broad. The male cerci appear more upcurved

than is represented in Scudder's figure, which it otherwise resembles pretty closely.

*M. Bruneri* is a western species, having been reported from Alberta, Washington, Idaho, Montana, Colorado and Nebraska.

In the list I have used the abbreviations Caulf. and Walk. in reference to the following two articles, respectively:

Caulfield, F. B.: A sketch of Canadian Orthoptera. Rep. Ent. Soc., Ont., XVIII., 59-72 (1888).

Walker, E. M.: Notes on some Ontario Acridiidae, CAN. ENT., XXX., 122-126 (1898); Ibid., XXX., 258-263 (1898); Ibid., XXXI., 29-36 (1899).

The names of new localities are given in italics.

#### I.—TETTIGINÆ.

1. *Nomotettix cristatus*, Scudd. Toronto (Caulf.).
2. *Tettix granulatus*, Kirby. Ottawa, Ont., generally, to L. Superior (Caulf.); Toronto, L. Simcoe, Muskoka (Walk.); *Six-mile Lake*, Aug. 24, 1898; *Sarnia*, Aug. 12, 1901; *Southampton*, Aug. 20, 1901; *Johnson's Harbour, Bruce Co.*, Aug. 22, 1901; *Stokes Bay, Bruce Co.*, Aug. 27, 1901; *Tobermory*, Aug. 24, 1901; *Owen Sound*, Aug. 31, 1901; *North River* and *I-land Lake, Algonquin Park*, Aug. 24, 28, 1902.
3. *Tettix acadicus*, Scudd. Lake of the Woods (Scudd., Daws., Rep. Geol., 49 par., 345, 1875).
4. *Tettix ornatus*, Say. Ont. generally (Caulf.); Toronto (Walk.); *Sarnia*, Aug. 16, 1901.
- 4a. *Tettix ornatus*, var. *triangularis*, Scudd. Ottawa, Ont., generally (Caulf.); Toronto (Walk.); *Southampton*, Aug. 29, 1901; *North River, Algonquin Park*, Aug. 20, 1902.
5. *Tettix Hancocki*, Morse. } Sudbury (Morse, Journ.
- 5a. *Tettix Hancocki*, var. *abbreviatus*, Morse. } N. Y. Ent. Soc., VII., 200-201, 1889; *Toronto*, May, Sept., Oct.; *Lake Simcoe*, Aug., Sept.; *Little Eagle Harbour, Bruce County*, Aug. 23, 1901; *Dwight, Muskoka*, Sept. 2, 1902.
6. *Tettix obscurus*, Hanc. De Grassi Pt. (Hancock, Tet. N. A., 89, 1902); *Toronto*, April; *Goderich*, Aug. 19, 1901; *Owen Sound*, Aug. 31, 1901.
7. *Tettix gibbosus*, Hanc. Toronto (Hanc., Tet. N. A., 90, 1902); *Lake Simcoe*, July 5, 1901. NOTE.—Species 5, 6 and 7 were included in *T. ornatus* in my "Notes on some Ontario Acridiidae."

8. *Paratettix cucullatus*, Scudd. Ont. generally (Caulf.); Toronto (Caulf., Walk.); Chatham, Aug. 10, 1901. NOTE.—*P. rugosus*, Scudd., is reported by Caulfield from Sudbury, but probably incorrectly, as it is a southern species.
9. *Tettigidea parvipennis*, Harris. Ottawa, Ont., generally, to L. Superior (Caulf., *polymorpha*); Ont. (Walk.); Pt. Pelee, Aug. 7, 1901 (nymphs); Arner, Aug. 8, 1901 (nymphs); Owen Sound, Aug. 31, 1901; North River, Algonquin Park, Aug., 1902 (nymphs); North Bay, Sept. 12, 1900.
- 9a. *Tettigidea parvipennis*, var. *pennata*, Morse. Ottawa, Ont., generally, to L. Superior (Caulf., *lateralis*); Toronto, L. Simcoe, (Walk.).

## II.—TRYXALINÆ.

10. *Tryxalis brevicornis*, Linn. Pt. Pelee, Aug. 8, 1901.
11. *Orphulella pelidna*, Burm. Sarnia, Aug. 12, 13, 15, 1901.
12. *Orphulella speciosa*, Scudd. Toronto, Lake Simcoe (Walk.); Rond Eau, Sept. 15, 1899; Arner, Aug. 9, 1901; Sarnia, Aug. 12, 16, 1901. (The *Orphula aequalis* of my former paper.)
13. *Chlœaltis conspersa*, Harris. Rat Portage (Caulf.); Nepigon (Caulf., Walk.); Toronto, Lake Simcoe, Clear Lake, Kingsville, Severn River (Walk.); Rond Eau, Sept. 15, 1899; Pt. Pelee, Aug. 7, 1901; Arner, Aug. 9, 1901; Sarnia, Aug. 12, 1901; Goderich, Aug. 18, 1901; North River, Algonquin Park, Aug., 1902; North Bay, Sept. 12, 1900.
- 13a. *Chlœaltis conspersa*, var. *prima*, Morse. Lake Simcoe (Walk.).
14. *Chlœaltis abdominalis*, Brun. Severn River (Walk.)
15. *Stenobothrus curtipennis*, Harris. Ottawa, Ont., generally, to the north of L. Superior (Caulf.); Ont. (Walk.); Toronto; Lake Simcoe; Clear Lake, July 27, 1897; Niagara, Sept. 26, 1898; Rond Eau, Sept. 14, 1899; Pt. Pelee, Aug. 7, 1901; Arner, Aug. 9, 1901; Chatham, Aug. 10, 1901; Sarnia, Aug. 12, 16, 1901; Walpole Id., River St. Clair, Aug. 13, 1901; Goderich, Aug. 18, 1901; Southampton, Aug. 20, 29; Johnson's and Little Eagle Harbours, Bruce Co., Aug. 22, 23, 1901; Tobermory, Aug. 24, 1901; Owen Sound, Aug. 30, 31, 1901; Severn River, Aug. 17, 1878; Lake Muskoka, Aug. 27, 1899; Algonquin Park, Aug., 1902; North Bay, Sept. 12, 1900.
- 15a. *Stenobothrus curtipennis*, var. *longipennis*, Scudd. Same localities as preceding.

16. *Mecostethus lineatus*, Scudd. Toronto, Lake Simcoe, Aurora, (Walk.); *Point Pelee*, Aug. 8, 1901; *Sarnia*, Aug. 12, 16, 1901; *Stokes Bay*, *Bruce Co.*, Aug. 27, 1901.
17. *Mecostethus gracilis*, Scudd. Lake Simcoe, Aurora (Walk.). In my "Notes" I stated that this species had precisely similar haunts to those of the preceding. Further collecting has shown that although often found together, *gracilis* prefers comparatively small open places in swampy woods, whereas *lineatus* occurs in large, open, sedgy marshes.

### III.—OEDIPODINÆ.

18. *Arphia tenebrosa*, Scudd. Nepigon, Sudbury (Caulf.).
19. *Arphia sulphurea*, Fab. Ont., generally (Caulf.); Toronto (Caulf., Walk.); *Sarnia*, Aug. 16, 1901 (larva).
20. *Chortophaga viridifasciata*, De Geer. Ottawa, Ont., generally, to north of L. Superior (Caulf.); Hamilton, Grimsby, Toronto, Lake Simcoe, Clear Lake (Walk.); *Rond Eau*, Sept. 15, 1899 (nymphs); *Arner*, Aug. 9, 1901 (nymph); *Walpole Id.*, Aug. 13, 1901 (nymphs); *Goderich*, Aug. 19, 1901 (nymph).
- 20a. *Chortophaga viridifasciata*, form *infuscata*, Harris. Same localities as preceding.
21. *Encoptolophus sordidus*, Burm. Toronto, Hamilton, Niagara, Lake Simcoe (Walk.); *Rond Eau*, Sept. 14, 1899; *Arner*, Aug. 9, 1901 (nymphs); *Sarnia*, Aug. 16, 1901; *Goderich*, Aug. 19, 1901 (nymphs); *Southampton*, Aug. 20, 1901 (nymph).
22. *Camnula pellucida*, Scudd. Nepigon, Clear Lake, Lake Simcoe, Toronto (Walk.); *Rond Eau*, Sept. 14, 1899; *Point Pelee*, Aug. 7, 1901; *Sarnia*, Aug. 12, 1901; *Walpole Id.*, Aug. 13, 1901; *Goderich*, Aug. 19, 1901; *Southampton*, Aug. 20, 1901; *Johnson's and Little Eagle Harbours*, *Bruce Co.*, Aug. 22 and 23, 1901; *Tobermory*, Aug. 24, 1901; *Stokes Bay*, Aug. 27, 1901; *Owen Sound*, Aug. 30, 1901; *Severn River*, Aug. 15, 17, 1898; *Lake Muskoka*, Aug. 27, 1899; *North River*, *Algonquin Park*, Aug. 1902; *North Bay*, Sept. 12, 1900.
23. *Hippiscus tuberculatus*, Pal. de Beauv. Nepigon (Caulf., Scudd., *Psyche*, VI., 304, 1892); Ottawa (Harrington, *Ann. Rep. Ent. Soc., Ont.*, 1883, 17); Toronto, London (Walk.); *Sault Ste. Marie*, June 7, 10, 1889.
24. *Dissosteira carolina*, Linn. Ont., generally, to Lake Superior (Caulf.); Rat Portage, Muskoka, Lake Simcoe, Toronto, Hamilton (Walk.);

- Rond Eau*, Sept. 14, 1899; *Pt. Pelee*, Aug. 7, 1901; *Arner*, Aug. 9, 1901; *Chatham*, Aug. 10, 1901; *Sarnia*, Aug. 12, 1901; *Walpole Id.*, Aug. 13, 1901; *Southampton*, Aug. 20, 1901; *Goderich*, Aug. 19, 1901; *Tobermory*, Aug. 24, 1901; *Owen Sound*, Aug. 30, 1901; *Severn River*, Aug., 1898; *North River*, *Algonquin Park*, Aug., 1902; *North Bay*, Sept. 12, 1900.
25. *Spharagemon collare*, Scudd., race *Wyomingianum*, Morse; *Rond Eau* (Walk.); *Pt. Pelee*, Aug. 7, 1901. (The specimens from *Pt. Pelee* average distinctly larger than those from *Rond Eau*.)
26. *Spharagemon bolli*, Scudd. *Toronto* (Morse, *Psyche*, VI., 291, Walk.); *Stony Lake*, *Peterboro Co.* (Walk.); *Rond Eau*, Sept. 15, 1899; *Pt. Pelee*, Aug. 7, 1901; *Arner*, Aug. 9, 1901; *Sarnia*, Aug. 16, 1901. (The specimens from *Rond Eau*, *Pt. Pelee* and *Arner* are much larger than those from the other more northern localities.)
27. *Scirtetica marmorata*, Harris. *Sparrow Lake*, *Gravenhurst*, *Severn River* (Walk.); *Lake Muskoka*, Aug. 27, 1899.
28. *Trimerotropis maritima*, Harris. *Toronto Id.*, *Kingsville* (Walk.); *Rond Eau*, Sept. 14, 1899; *Pt. Pelee*, Aug. 7, 1901; *Walpole Id.*, Aug. 13, 1901; *Sarnia*, Aug. 12, 14, 1901.
29. *Trimerotropis huroniana*, Walk. *Southampton* (Walk., *CAN. ENT.*, XXXIV., 1).
30. *Circotettix verruculatus*, Kirby. *Ottawa* (Caulf.); *Rat Portage*, *Molson*, *Jackfish*, *Stony Lake*, *Lake Simcoe*, *Aurora*, *Gravenhurst* (Walk.); *Southampton*, Aug. 21, 29, 1901; *Johnson's and Little Eagle Harbours*, *Bruce Co.*, Aug. 22, 23, 1901; *Tobermory*, Aug. 24, 1901; *Stokes Bay and Burke Id.*, *Lake Huron*, Aug. 27, 1901; *Owen Sound*, Aug. 31, 1901; *Severn River*, Aug. 14, 1898; *Lake Muskoka*, Aug. 27, 1899; *North River*, *Algonquin Park*, Aug., 1902; *North Bay*, Sept. 12, 1900.

## ACRIDINÆ.

31. *Schistocerca Americana*, Drury. *London* (Moffat); *Toronto* (Walk.).
32. *Podisma glacialis*, Scudd. *Sudbury* (Scudd., *Rep. Ent. Soc.*, Ont., XXVI., 63); *North Bay* (Walk.).
33. *Podisma variegata*, Scudd. *Lake Simcoe*, *Muskoka* (Walk.); *Tobermory*, Aug. 24, 25, 1901; *North River*, *Algonquin Park*, Aug. 21, 27, 1902.
34. *Melanoplus Bruneri*, Scudd. *Dwight*, *Muskoka*, Sept. 2, 1902.

35. *Melanoplus atlanis*, Riley. Ottawa (Caulf., Fletch., Rep. Exp. Farms, Can., 1888, 63); Sudbury (Scudd.); Rat Portage, Nepigon, Severn R., L. Simcoe, Toronto (Walk.); *Rond Eau*, Aug. 14, 1899; *Pt. Pelee*, Aug. 7, 1901; *Sarnia*, Aug. 12, 1901; *Goderich*, Aug. 19, 1901; *Southampton*, Aug. 20, 1901; *Tobermory*, Aug. 24, 1901; *Johnson's and Little Eagle Harbours*, Aug. 22, 23, 1901; *Owen Sound*, Aug. 30, 1901; *Lake Muskoka*, Aug. 27, 1899; *North River, Algonquin Park*, Aug., 1902; *North Bay*, Aug. 12, 1900.
36. *Melanoplus Dawsoni*, Scudd. Toronto, Severn R. (Walk.).
37. *Melanoplus islandicus*, Blatchl. Toronto, Aurora, Lake Simcoe, Severn R., near Lake Kabinakagami (Algoma) (Walk.); *Southampton*, Aug. 20, 21, 1901; *Johnson's and Little Eagle Harbours*, Aug. 22, 23, 1901; *Tobermory*, Aug. 24, 1901; *North River and Island Lake, Algonquin Park*, Aug. 19-28, 1902; *North Bay*, Sept. 12, 1900.
38. *Melanoplus fasciatus*, Walk. Lake of the Woods (Scudd., Dawes., Rep. Geol., 49 par., 343); Toronto, Lake Simcoe, Stony Lake (Walk.); *Point Pelee*, Aug. 7, 1901; *Johnson's and Little Eagle Harbours*, Aug. 22, 23, 1901; *Tobermory*, Aug. 24, 1901; *North River, Algonquin Park*, Aug. 23-31, 1902.
- 38a. *Melanoplus fasciatus*, var. *volaticus*, Scudd. Lake Simcoe (Walk.); *Johnson's Harbour*, Aug. 22, 1901, 3 ♂♂.
39. *Melanoplus femur-rubrum*, DeGeer. Ottawa, Ont., generally, to north of L. Superior (Caulf.); Ont. (Walk.); *Rond Eau*, Sept. 14, 1901; *Pt. Pelee*, Aug. 7, 1901; *Arner*, Aug. 9, 1901; *Chatham*, Aug. 10, 1901; *Sarnia*, Aug. 12, 1901; *Walpole Id.*, Aug. 13, 1901; *Goderich*, Aug. 19, 1901; *Southampton*, Aug. 20, 1901; *Johnson's and Little Eagle Harbours*, Aug. 22, 23, 1901; *Tobermory*, Aug. 24, 1901; *Stokes Bay and Burke Id., L. Huron*, Aug. 27, 1901; *Owen Sound*, Aug. 30, 1901; *Lake Muskoka*, Aug. 27, 1899; *North River, Algonquin Park*, Aug. 25-31, 1902; *North Bay*, Sept. 12, 1900.
40. *Melanoplus extremus*, Walk. Algoma, near portage between Lake Kabinakagami and the Matawishguia River (Walk.)
41. *Melanoplus coccineipes*, Scudd. Sudbury (Scudd., Rep. Ent. Soc., Ont., XXVI., 64).

42. *Melanoplus minor*, Scudd. Toronto (Walk.)
43. *Melanoplus collinus*, Scudd. Toronto, Lake Simcoe, Severn R., Hawk Lake (Walk.); *Rond Eau*, Sept. 14, 1901; *Pt. Pelee*, Aug. 7, 1901; *Arner*, Aug. 9, 1901; *Sarnia*, Aug. 12, 1901; *Lake Muskoka*, Aug. 27, 1899; *Dwight, Muskoka*, Sept. 2, 1902; *North River* and *Big Joe Lake, Algonquin Park*, Aug. 25-31, 1902; *North Bay*, Sept. 12, 1900.
44. *Melanoplus bivittatus*, Say. Lake of the Woods (Scudd., Daws., Rep. Geol., 49 par., 343); *North Bay* (Walk.).
45. *Melanoplus femoratus*, Burm. Ont., everywhere (Caulf.); Ont., *North Bay* (Walk.); *Niagara, Rond Eau*, Sept. 14, 1899; *Pt. Pelee*, Aug. 7, 1901; *Arner*, Aug. 9, 1901; *Chatham*, Aug. 10, 1901; *Sarnia*, Aug. 12, 1901; *Walpole Id.*, Aug. 13, 1901; *Goderich*, Aug. 19, 1901; *Southampton*, Aug. 20, 1901; *Johnson's and Little Eagle Harbours*, Aug. 22, 23, 1901; *Tobermory*, Aug. 24, 1901; *Stokes Bay and Burke Id., L. Huron*, Aug. 27, 1901; *Owen Sound*, Aug. 31, 1901; *Lake Muskoka*, Aug. 27, 1899; *Algonquin Park*, Aug. 1902.
46. *Melanoplus punctulatus*, Uhl. Toronto, L. Simcoe (Walk.).
47. *Paroxya floridana*, Thom. *Arner*, Aug. 9, 1901.

## THE NORTHWEST (CANADA) ENTOMOLOGICAL SOCIETY.

### YOUNG FOLKS' PRIZE COMPETITION.

1. For best collection of injurious and beneficial insects, Dr. James Fletcher will give a prize of \$2.50, or a standard book on insects.
2. For best general collection of insects, \$1.50.
3. For best collection of pressed plants, in which noxious weeds and grasses and their characteristics must be a feature, Dr. Fletcher will give a prize of \$2.50, or a book.
4. For best general collection of plants, \$1.50.

Of these prizes, two will be given by Dr. Fletcher, and two by the N.-W. Entomological Society. The awarding will take place in Calgary immediately prior to the annual meeting of that Society. Further prizes may be given should the exhibits deserve them.